

Fig 10: Sheet Brightness results for TiSil and PCC(HO)

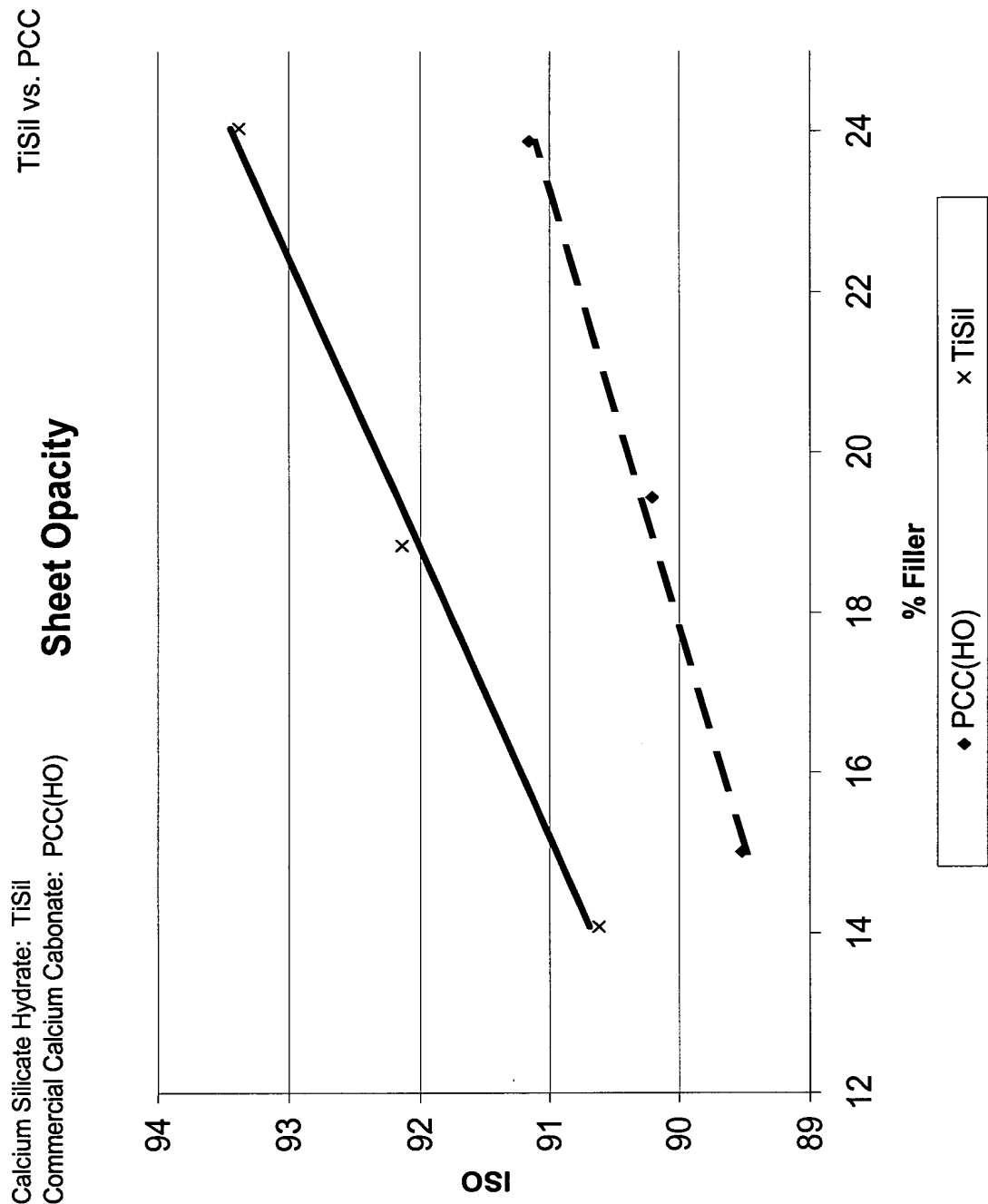


Fig 11: Sheet Opacity results for TiSil and PCC(HO)

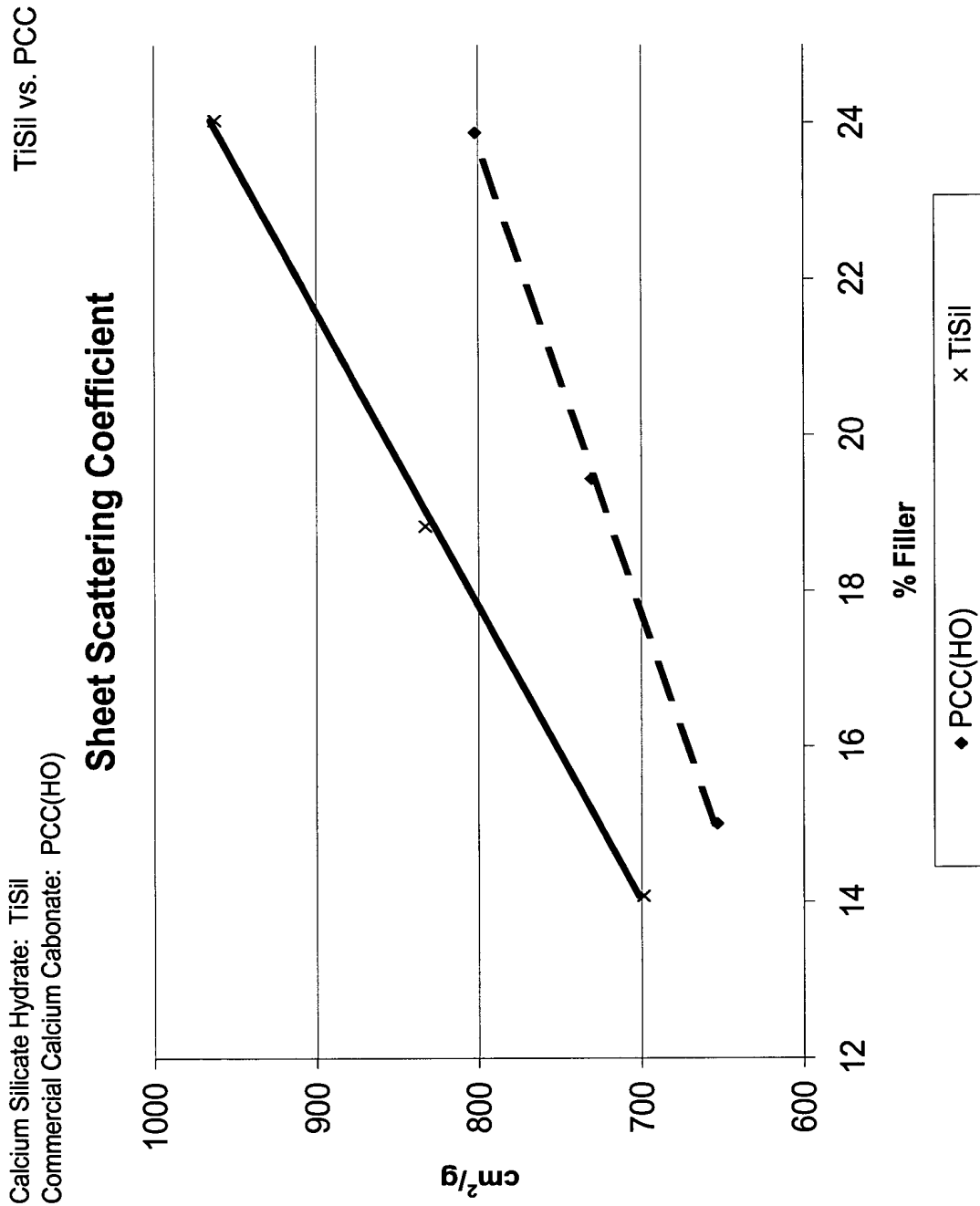


Fig 12: Sheet Scattering Coefficient results for TiSil and PCC(HO)

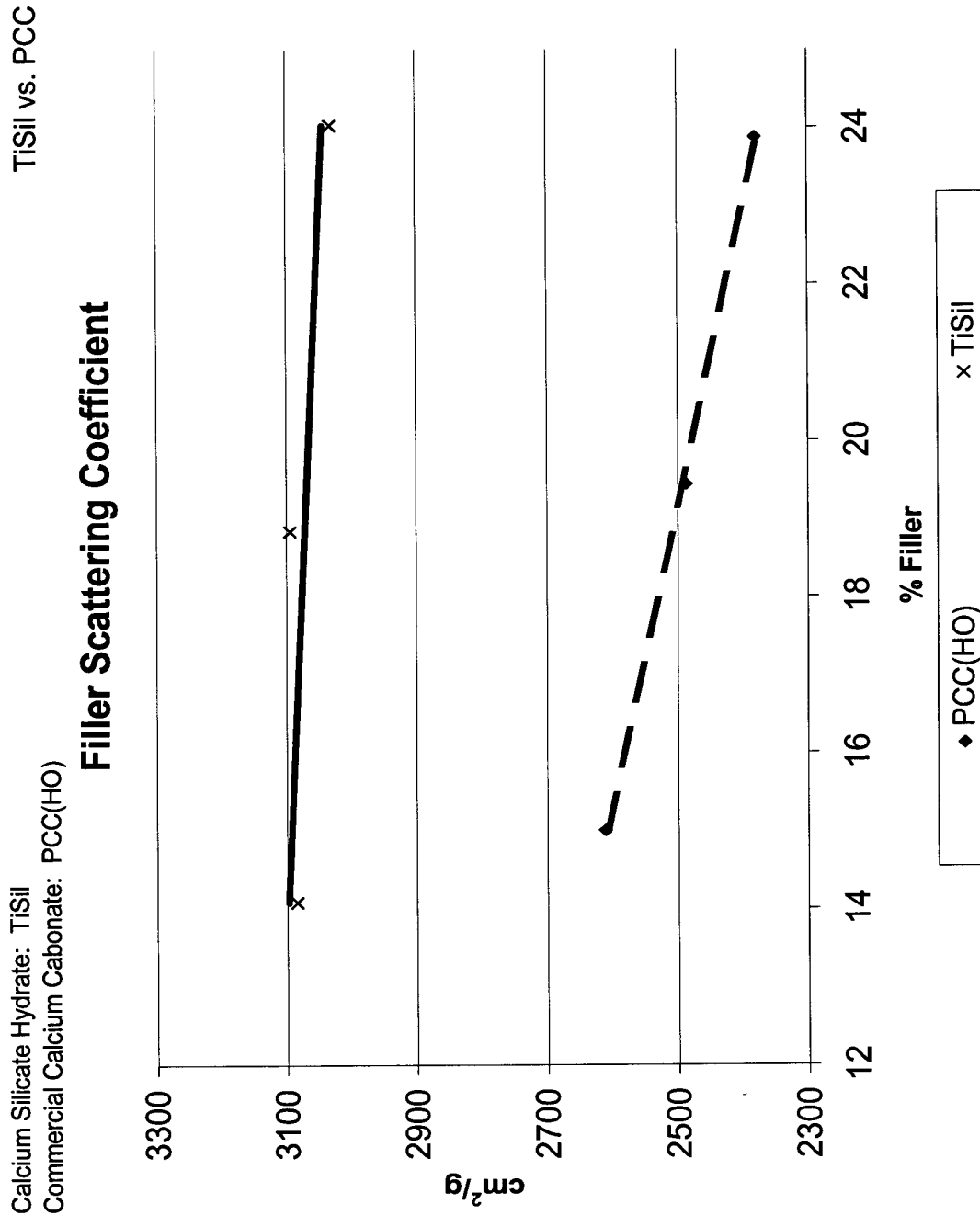


Fig 13: Filler Scattering Coefficient results for TiSil and PCC(HO)

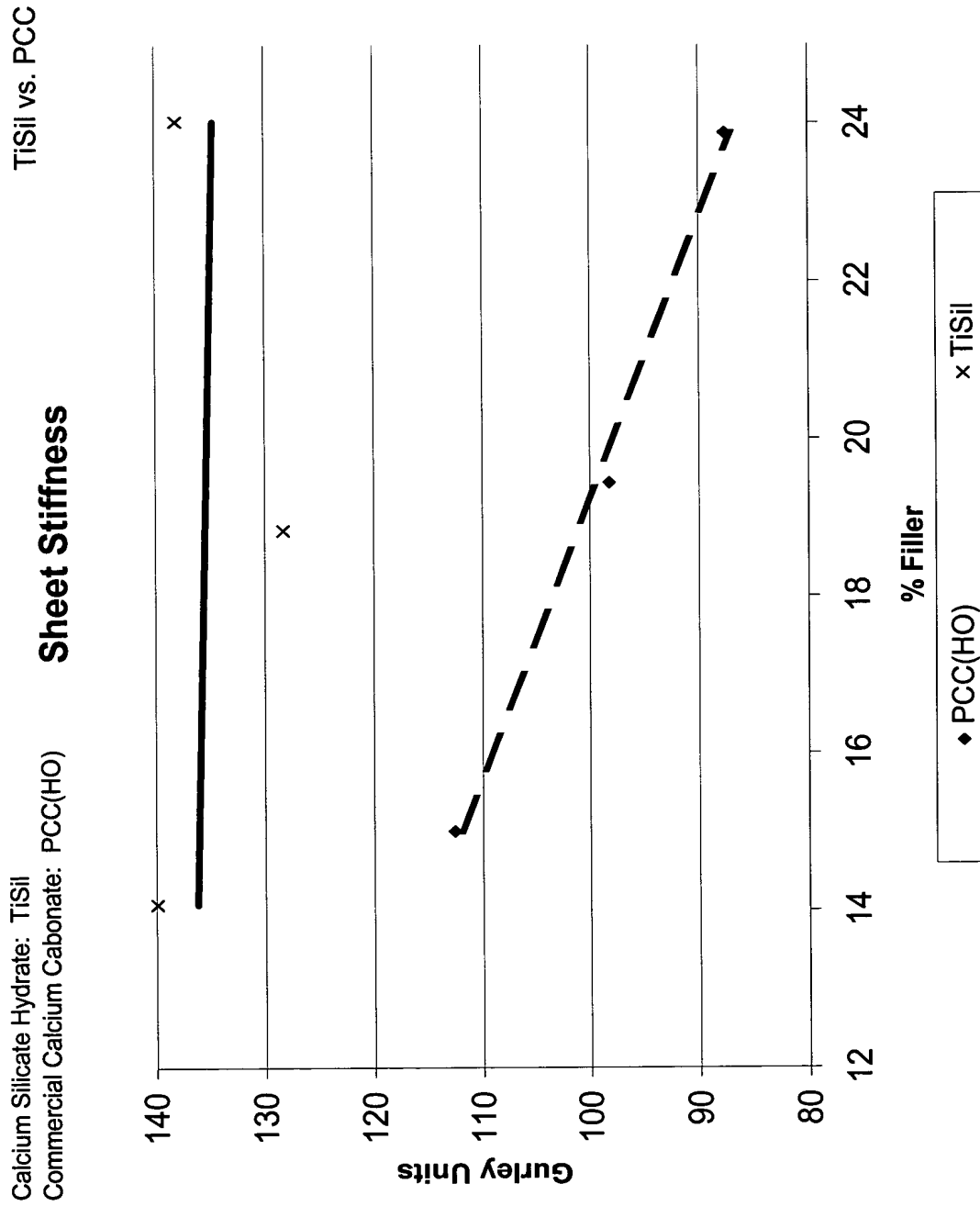
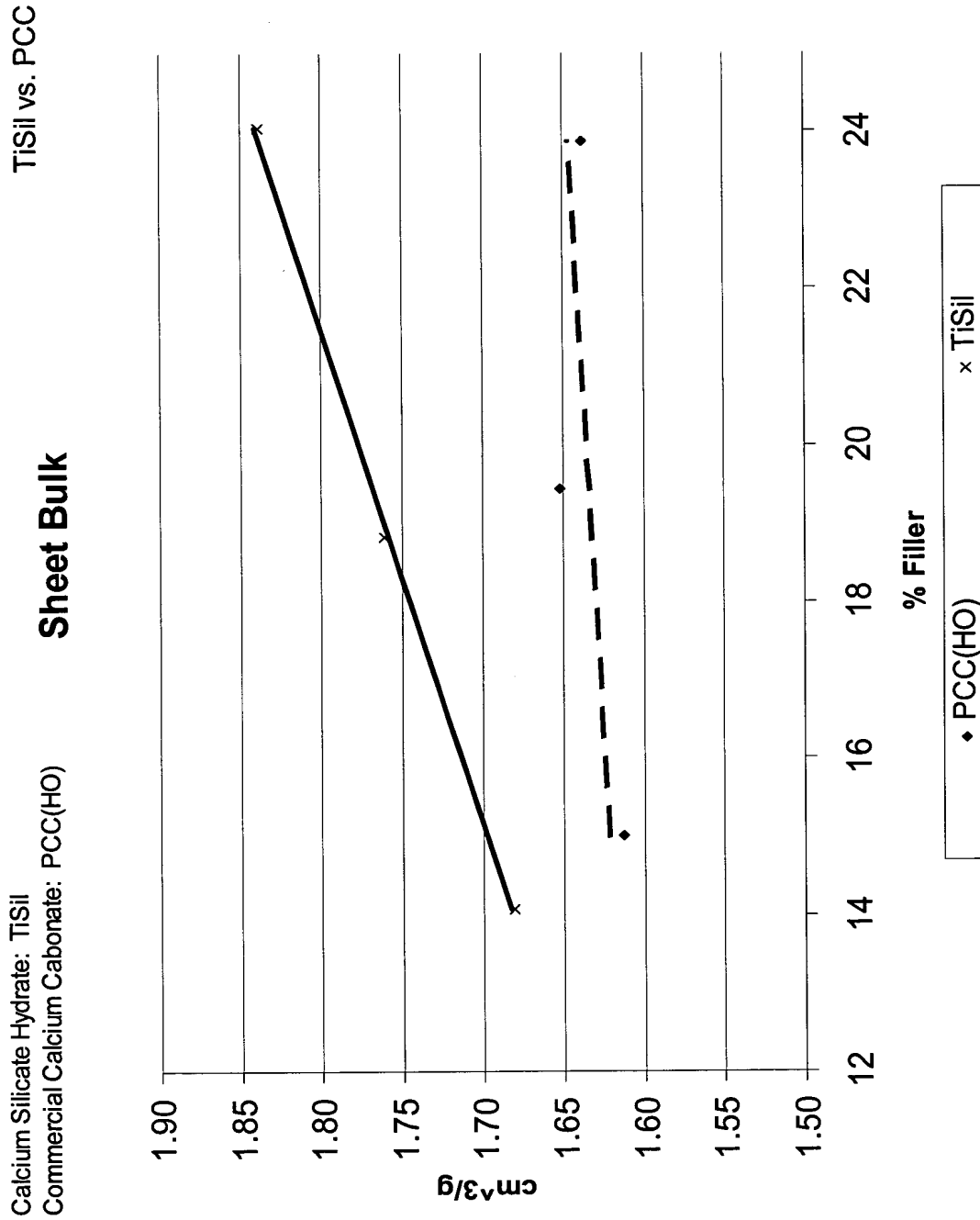


Fig 14: Sheet Stiffness results for TiSil and PCC(HO)



**Fig 15: Sheet Bulk results for TiSil and PCC(HO)**

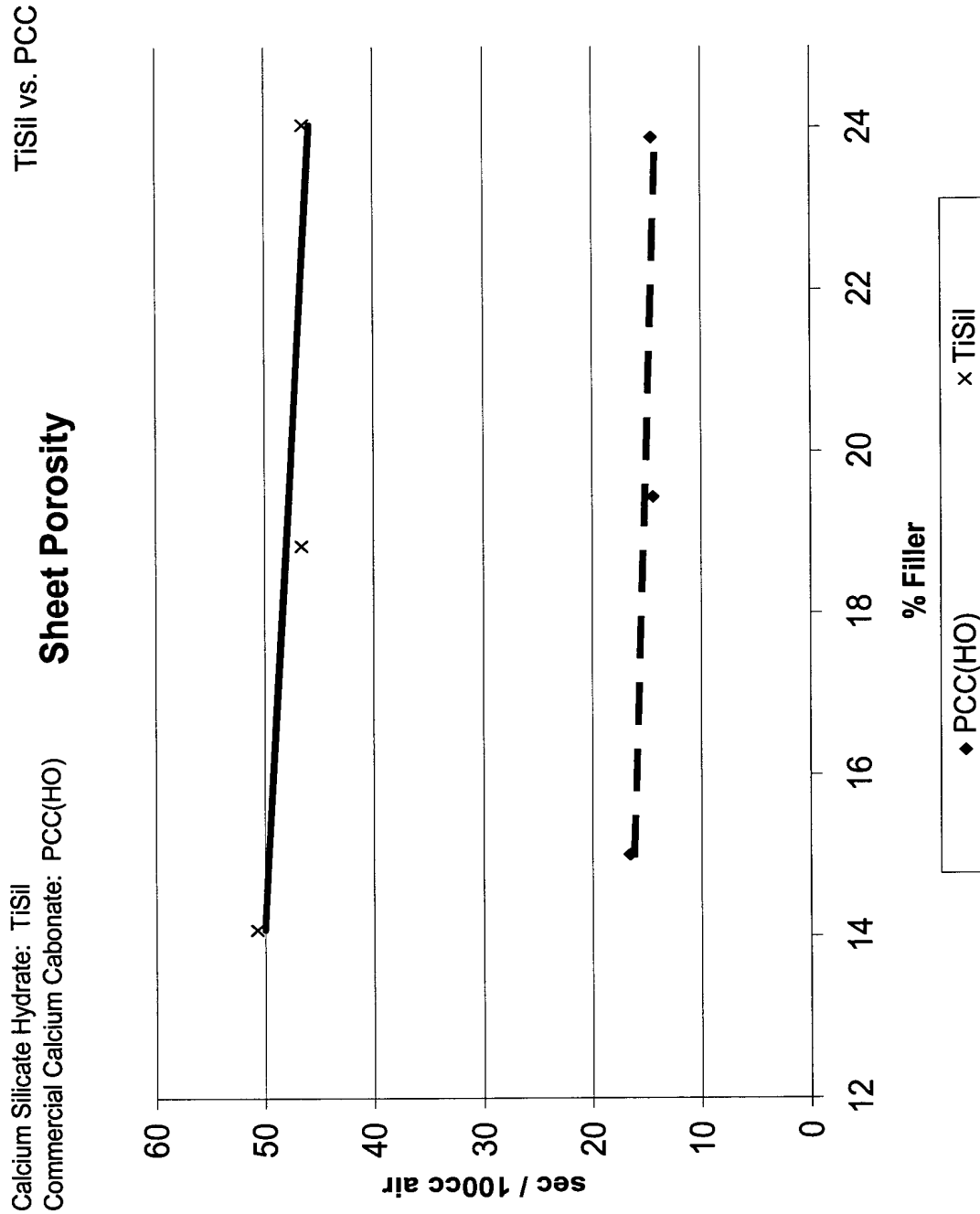


Fig 16: Sheet Porosity results for TiSil and PCC(HO)

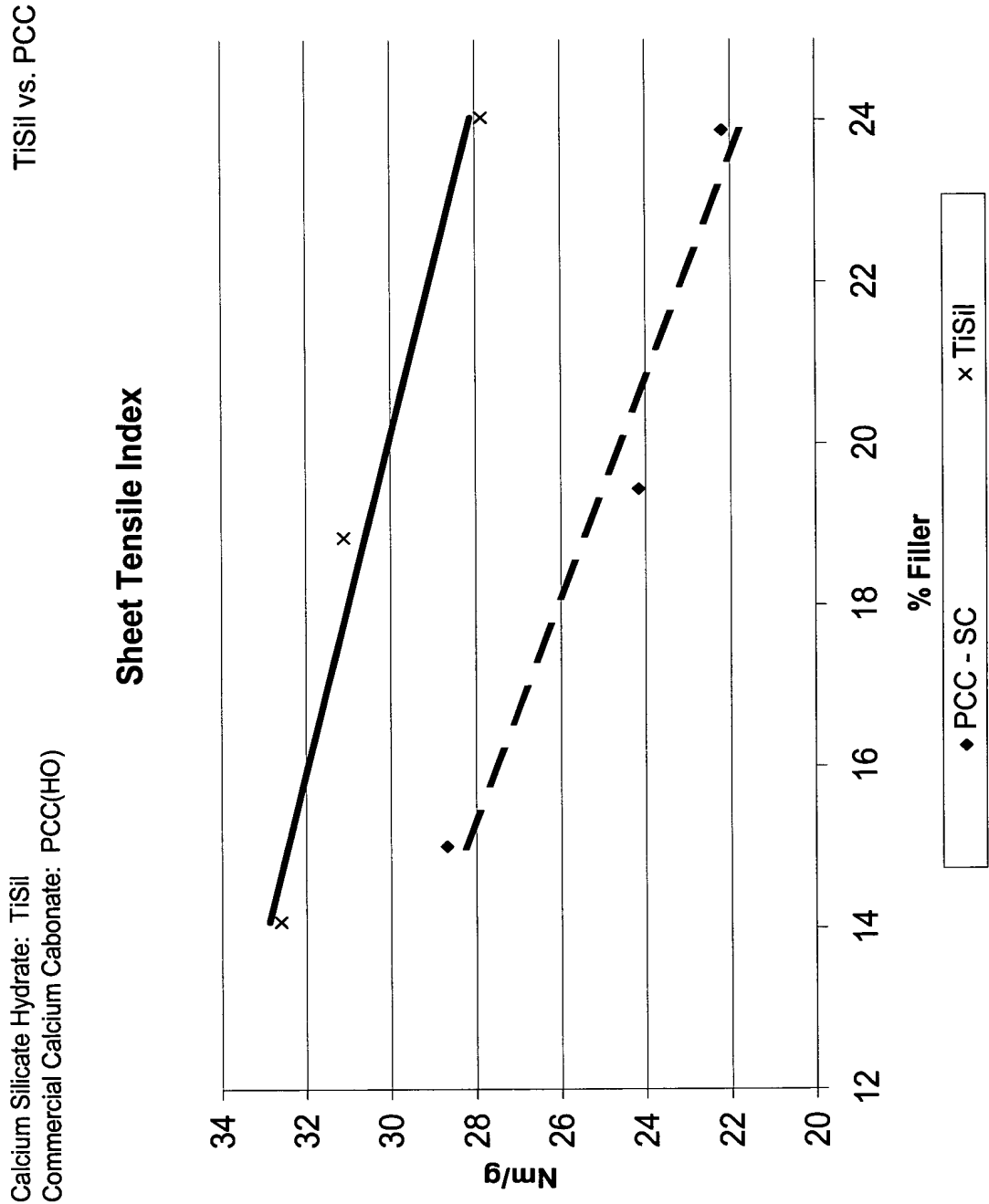
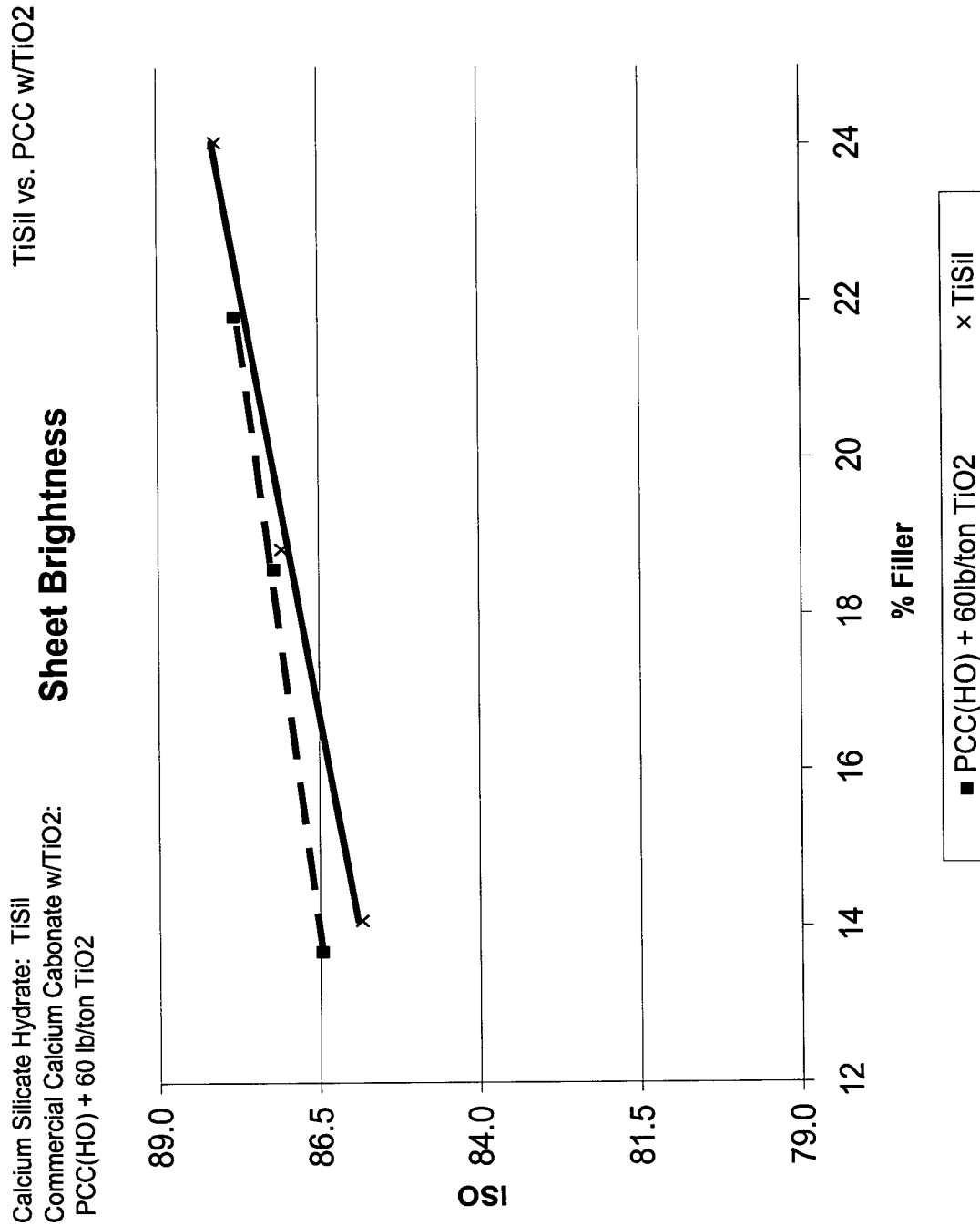


Fig 17: Sheet Tensile Index results for TiSil and PCC(HO)





**Fig 18: Sheet Brightness results for TiSil and PCC(HO) w/TiO<sub>2</sub>**

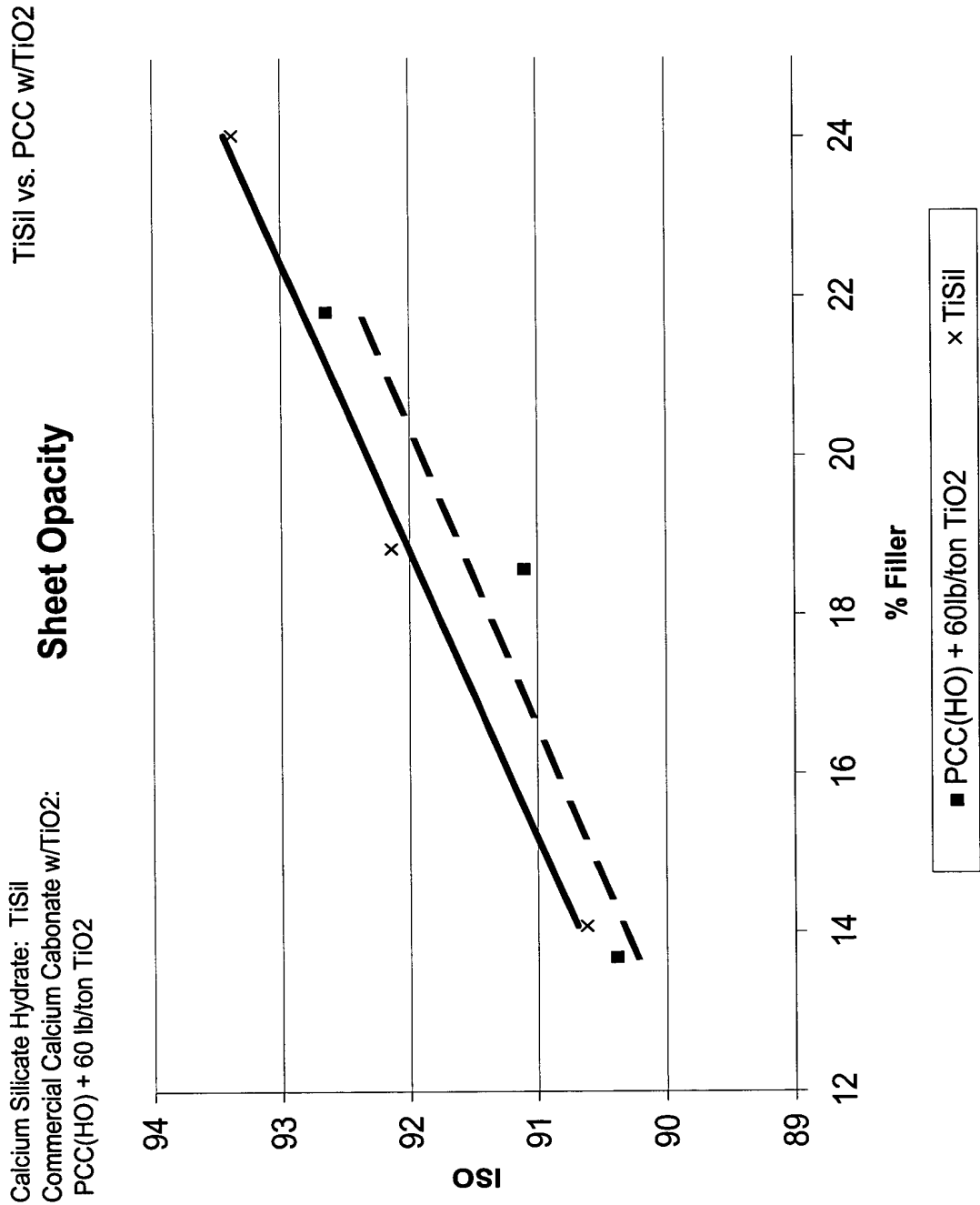
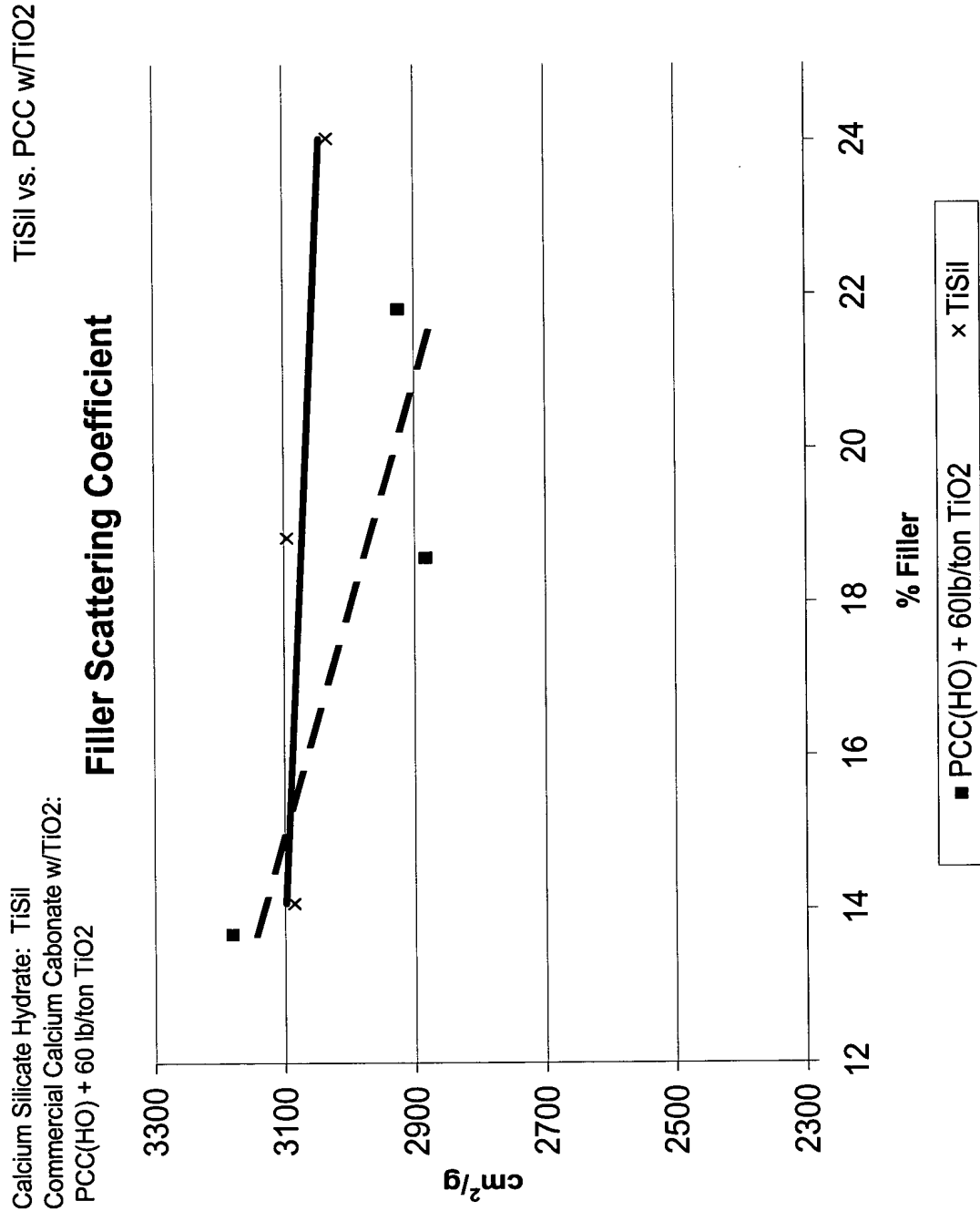


Fig 19: Sheet Opacity results for TiSil and PCC(HO) w/TiO<sub>2</sub>





**Fig 21: Filler Scattering Coefficient results for TiSil and PCC(HO) w/TiO<sub>2</sub>**

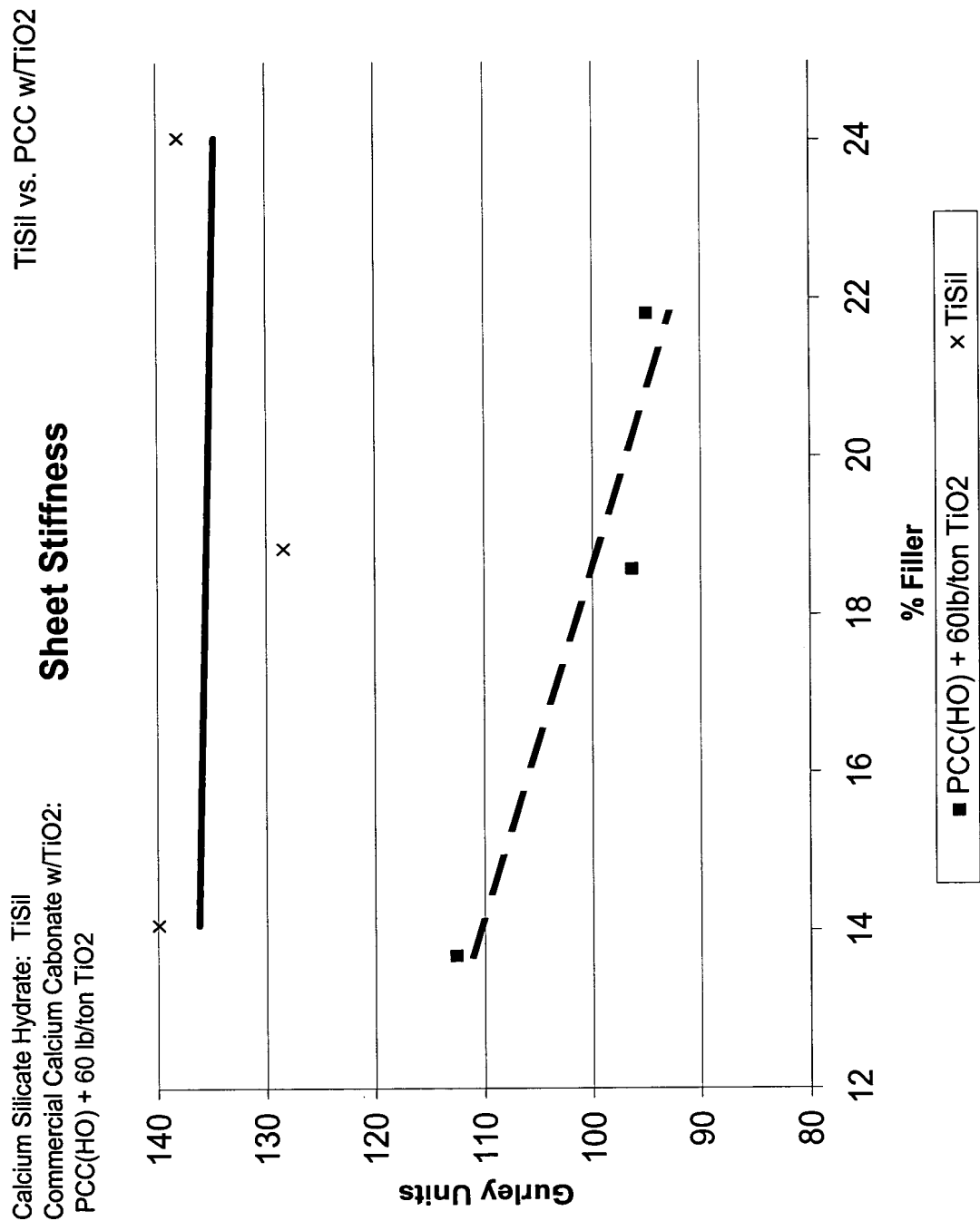
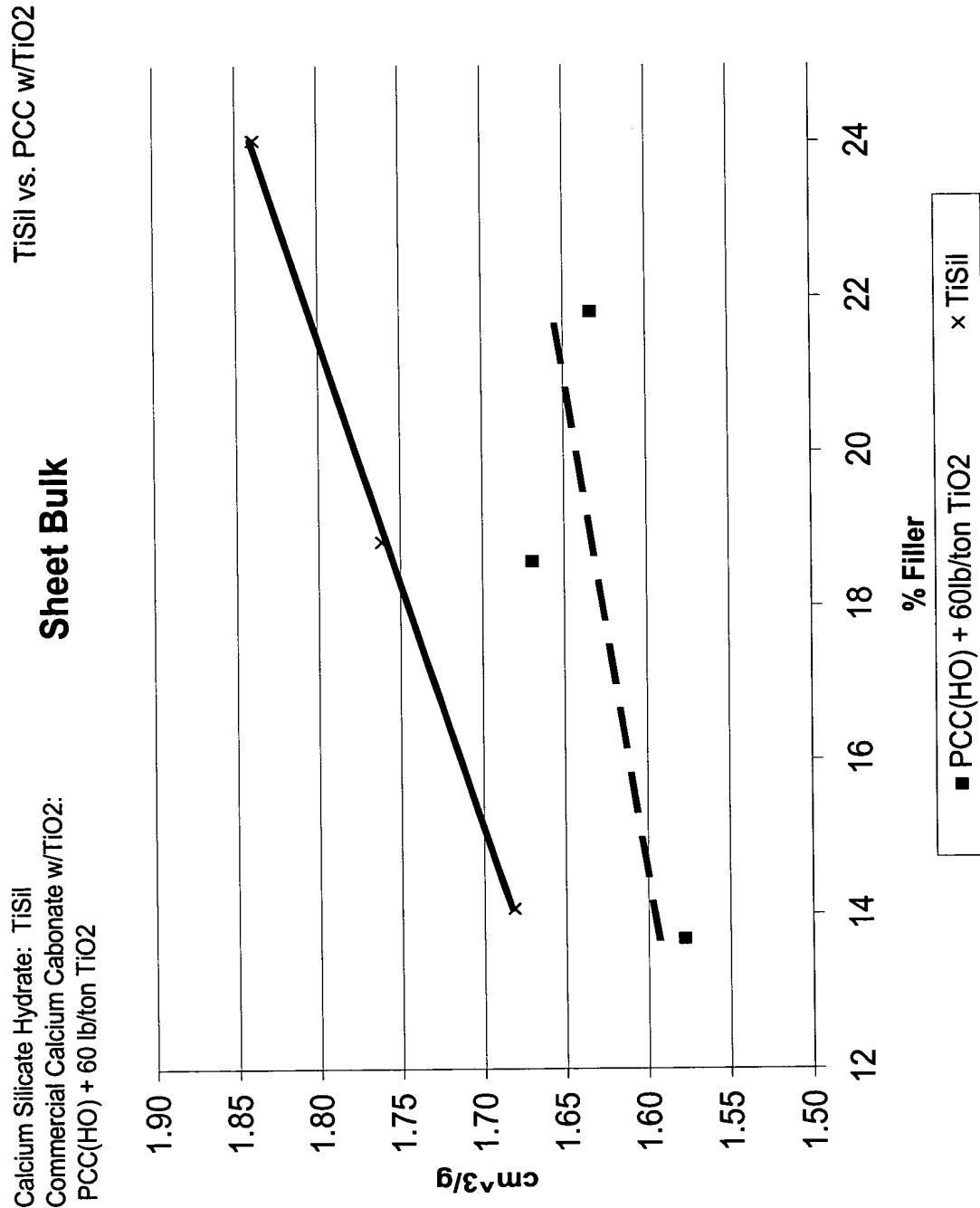


Fig 22: Sheet Stiffness results for TiSil and PCC(HO) w/TiO<sub>2</sub>



**Fig 23: Sheet Bulk results for TiSil and PCC(HO) w/TiO<sub>2</sub>**

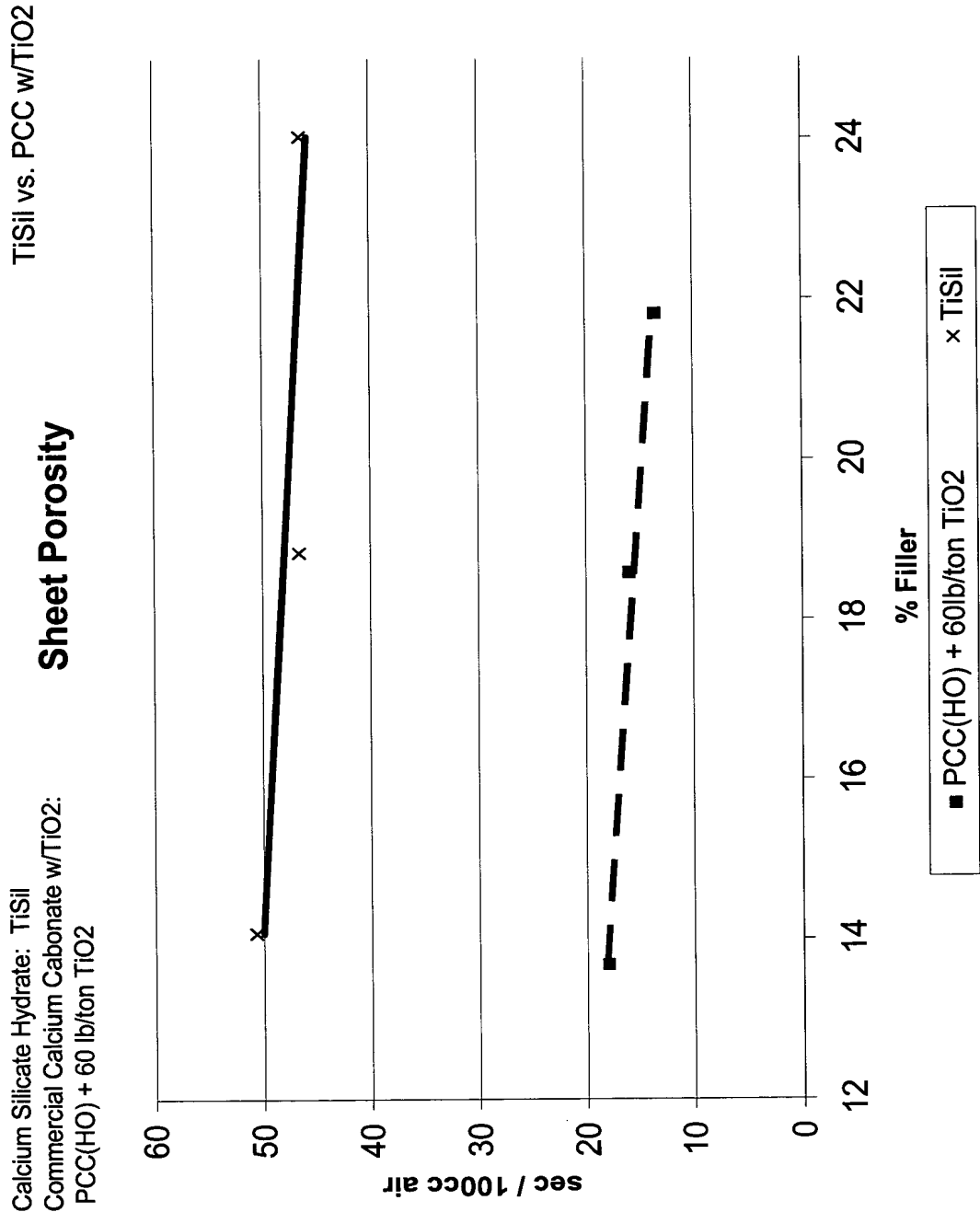


Fig 24: Sheet Porosity results for TiSil and PCC(HO) w/TiO<sub>2</sub>

TiSil vs. PCC w/TiO<sub>2</sub>

Calcium Silicate Hydrate: TiSil  
Commercial Calcium Carbonate w/TiO<sub>2</sub>:  
PCC(HO) + 60 lb/ton TiO<sub>2</sub>

### Sheet Tensile Index

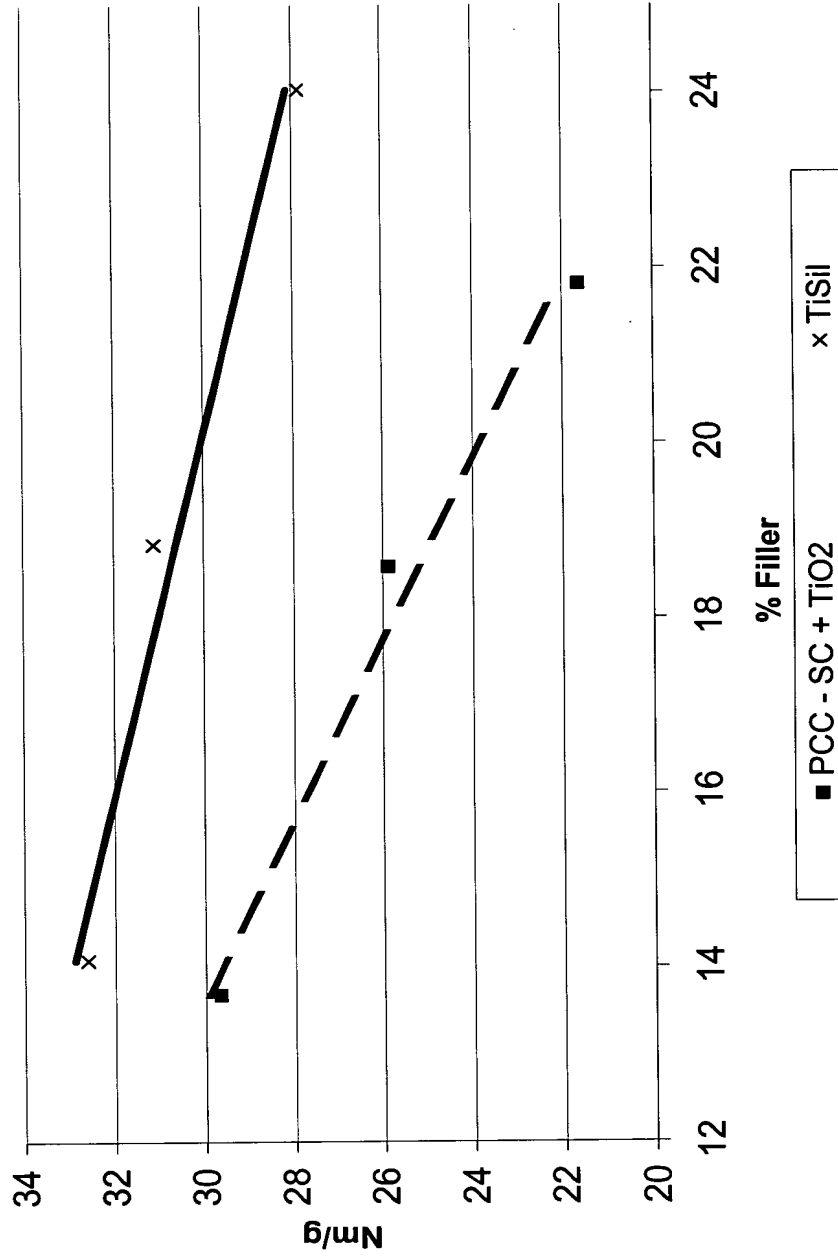


Fig 25: Sheet Tensile Index results for TiSil and PCC(HO) w/TiO<sub>2</sub>



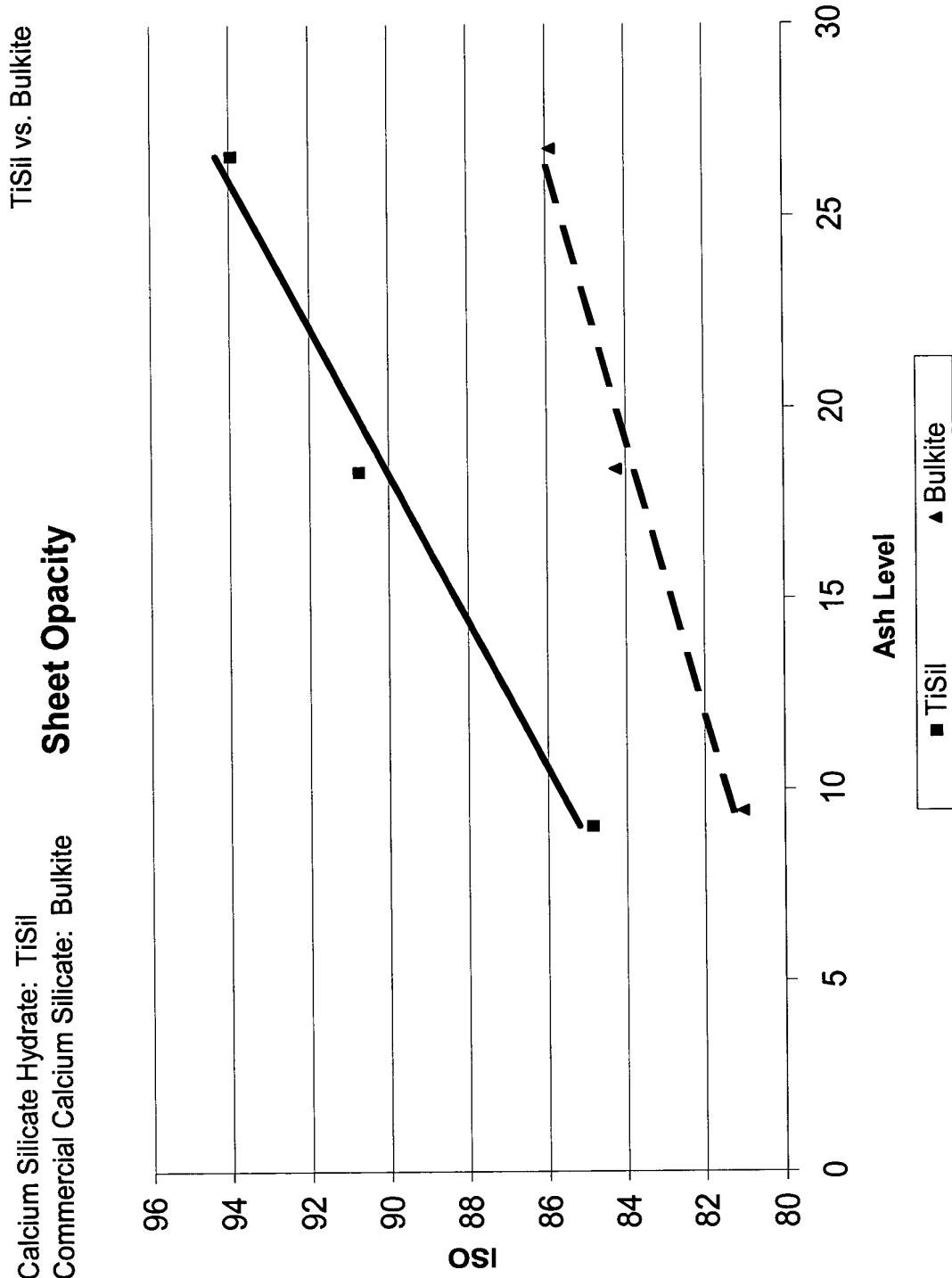


Fig 26: Sheet Opacity results for TiSil and Bulkite

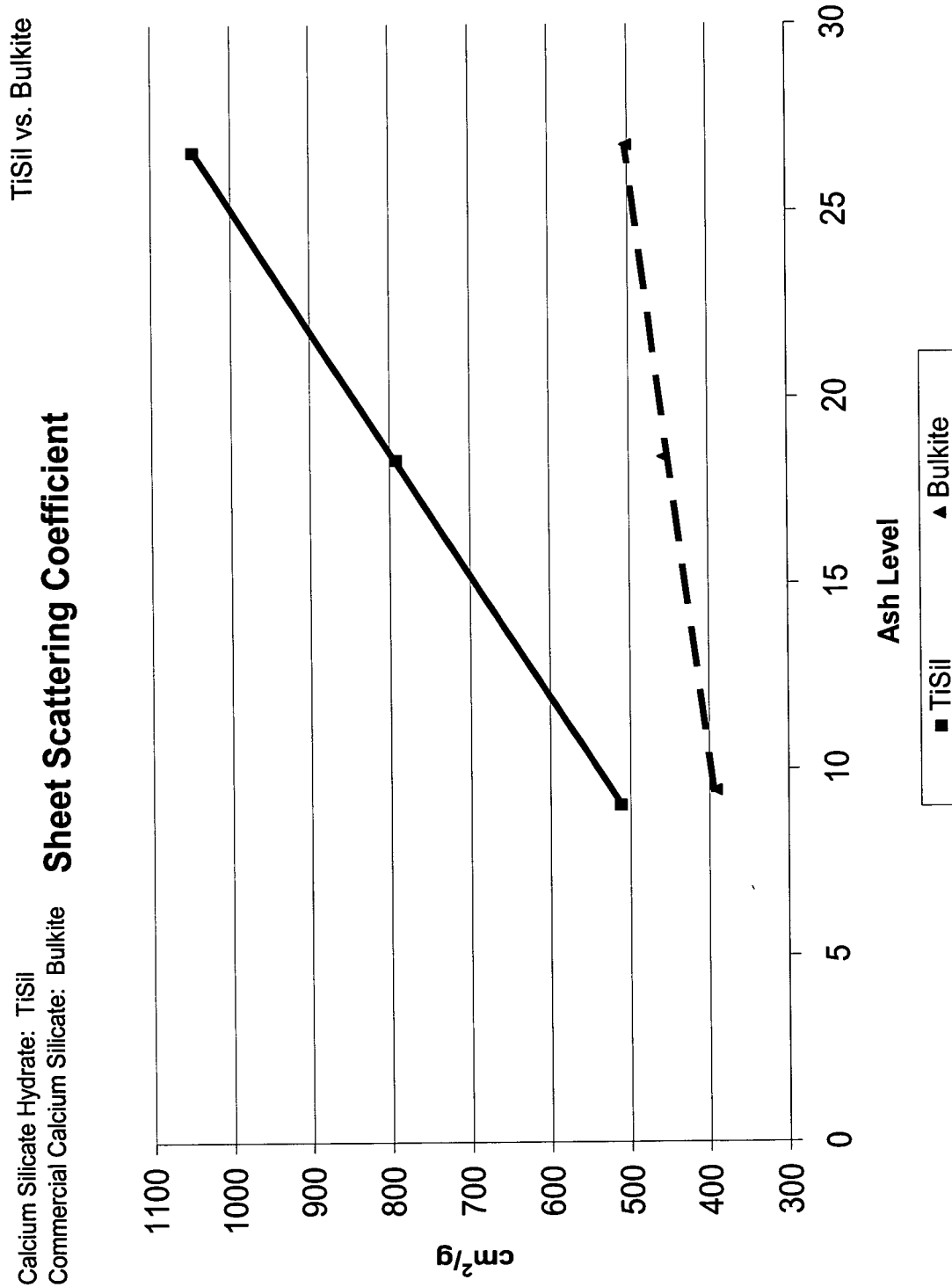
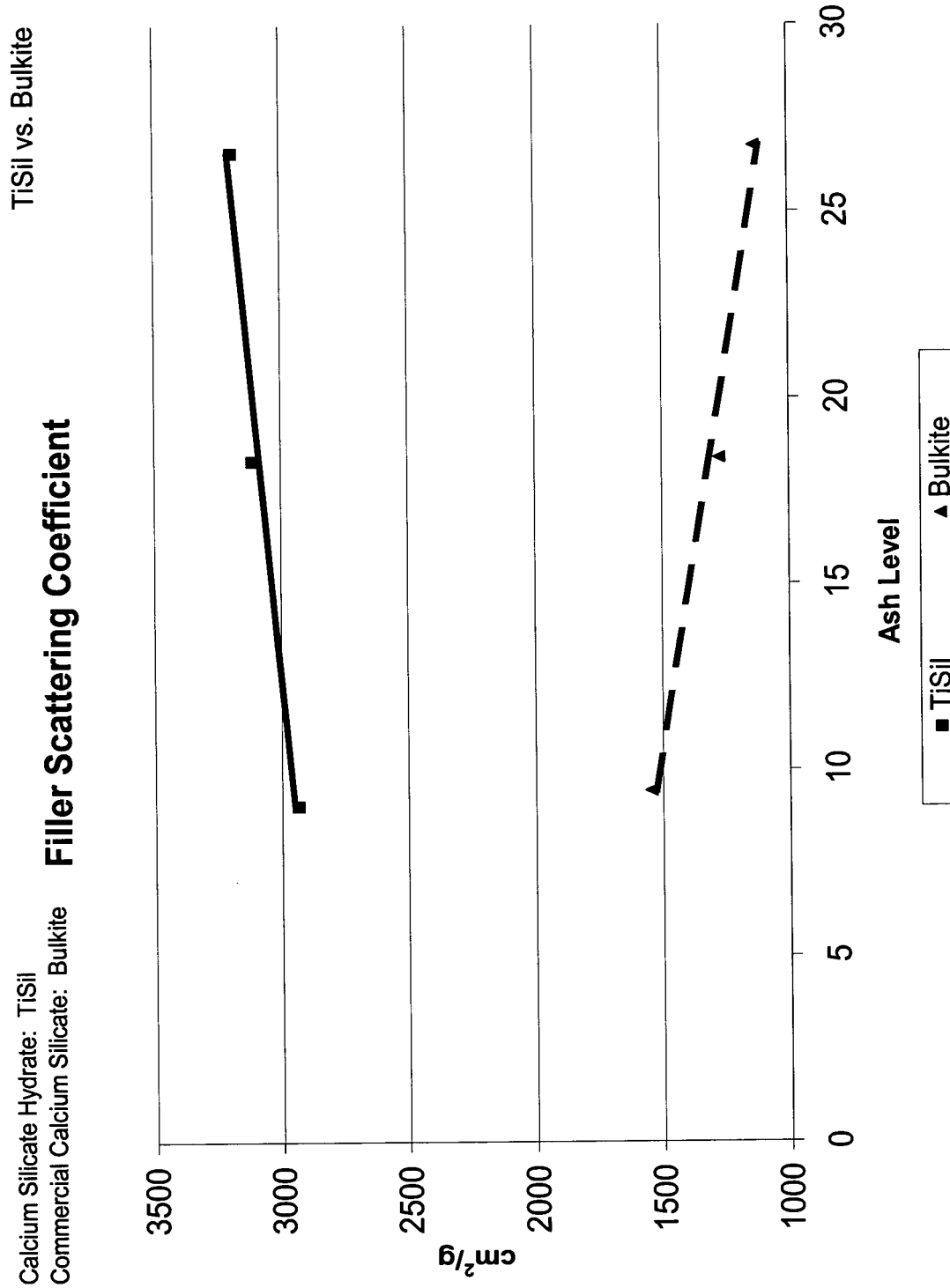


Fig 27: Sheet Scattering Coefficient results of TiSil and Bulkite



**Fig 28: Filler Scattering Coefficient results for TiSil and Bulkite**

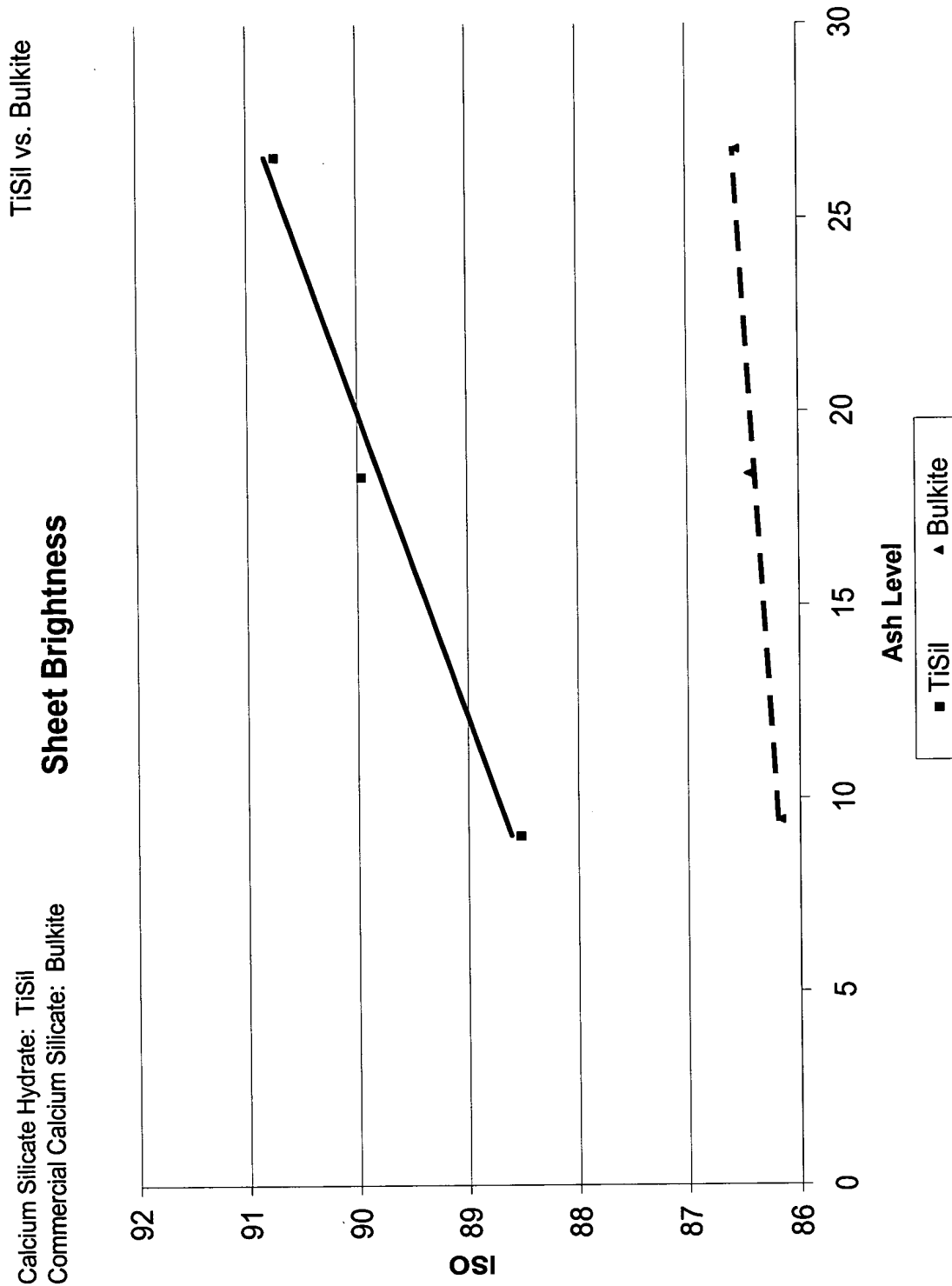


Fig 29: Sheet Brightness results for TiSil and Bulkite

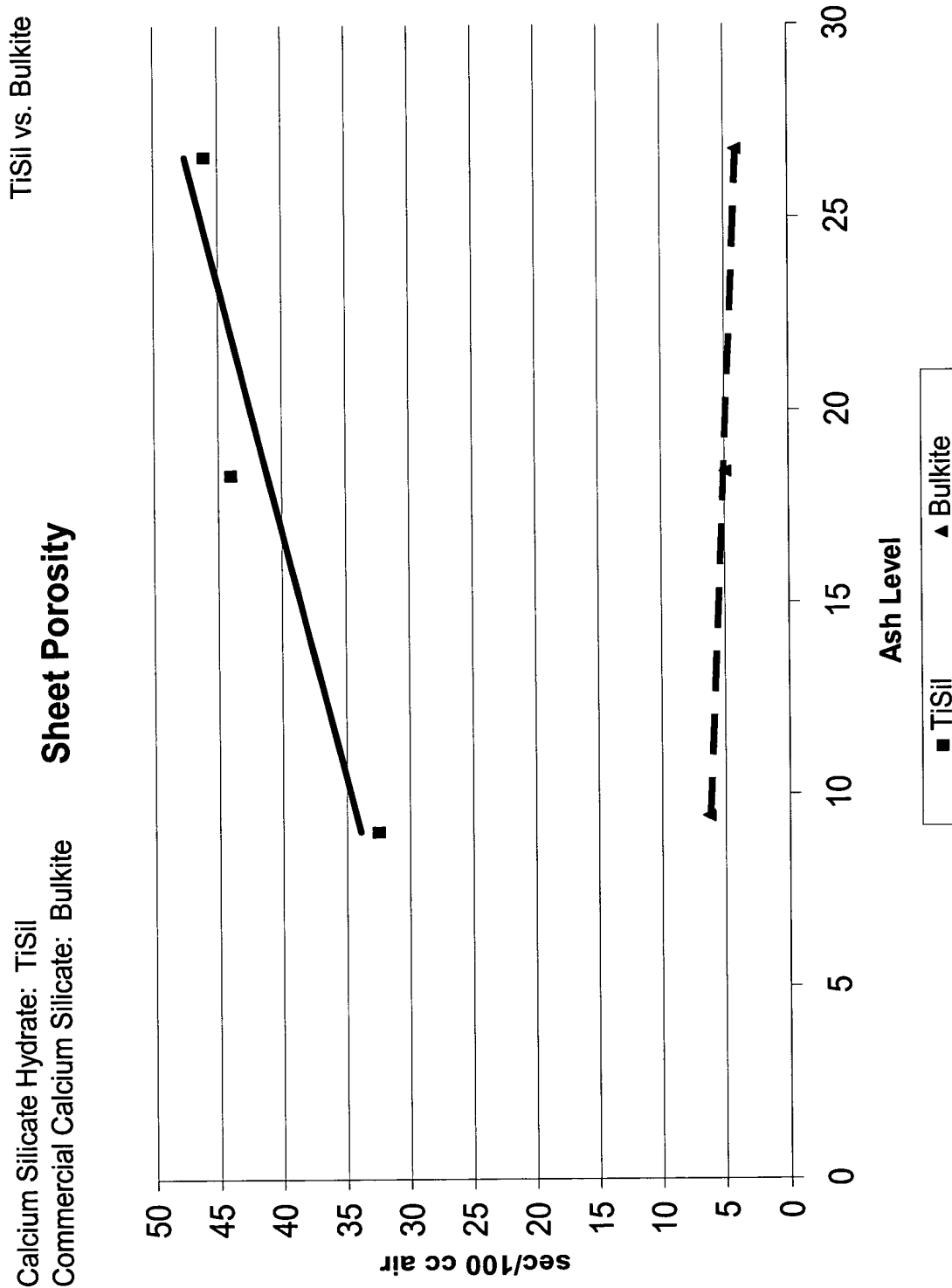
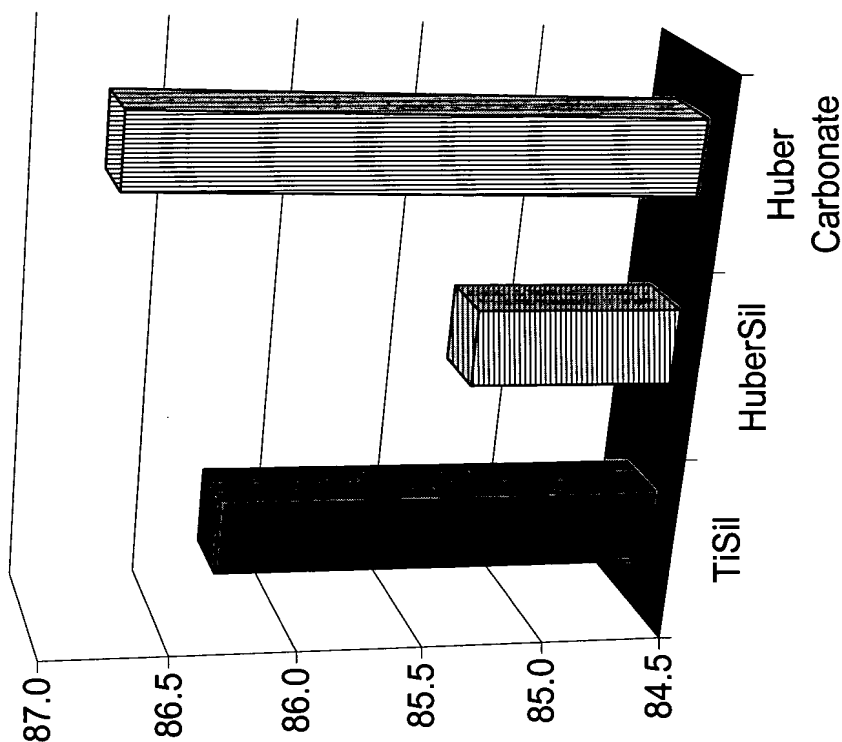


Fig 30: Sheet Porosity results for TiSil and Bulkite

TiSil vs. HuberSil and  
 Huber Carbonate

Calcium Silicate Hydrate: TiSil  
 Commercial Silicate: HuberSil  
 Commercial Carbonate: Huber Carbonate  
**Normalized Sheet Opacity**  
 (Interpolated to 6% Filler)

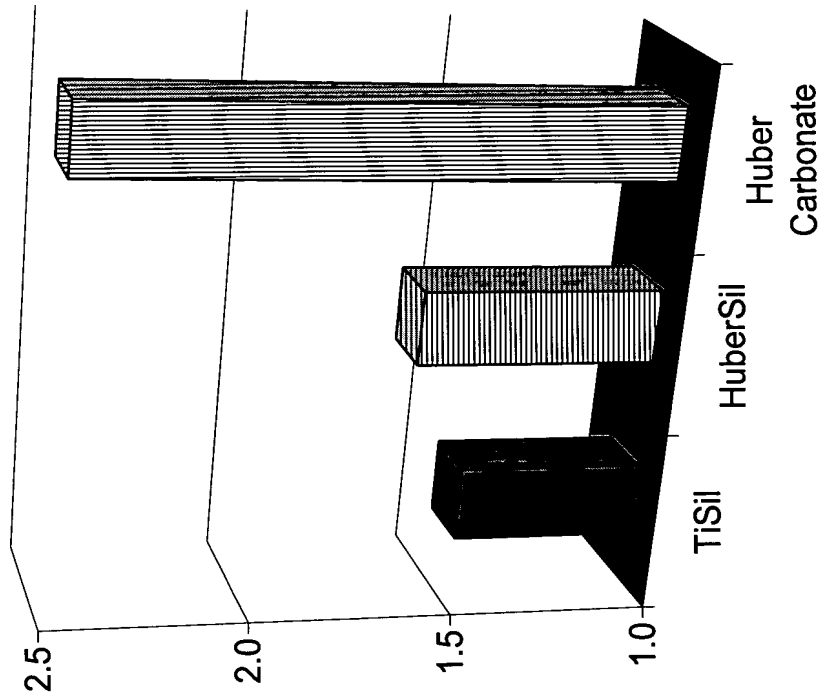


**Fig 31: Normalized Sheet Opacity results for newsprint sheets containing various fillers, interpolated to 6% Ash.**

TiSil vs. HuberSil and  
 Huber Carbonate

# **Sheet Ink Penetration** (Interpolated to 6% Filler)

Calcium Silicate Hydrate: TiSil  
 Commercial Silicate: HuberSil  
 Commercial Carbonate: Huber Carbonate

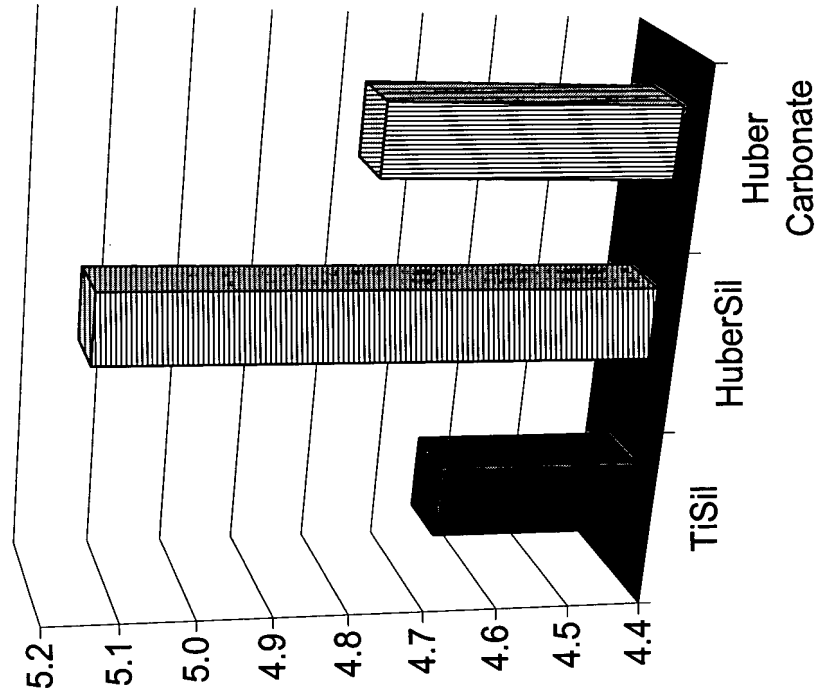


**Fig 32: Sheet Ink Penetration results on newsprint sheets containing various fillers, interpolated to 6% Ash.**

TiSil vs. HuberSil and  
 Huber Carbonate

Calcium Silicate Hydrate: TiSil  
 Commercial Silicate: HuberSil  
 Commercial Carbonate: Huber Carbonate

### Sheet Show Through (Interpolated to 6% Filler)



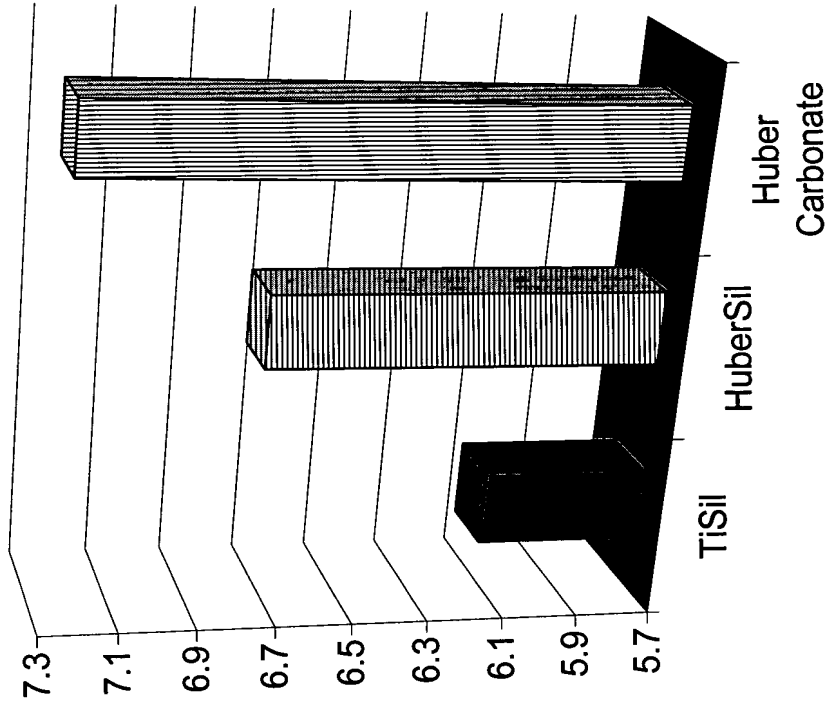
**Fig 33: Sheet Show Through results on newsprint containing various fillers, interpolated to 6% Ash**



TiSil vs. HuberSil and  
Huber Carbonate

**Sheet Print Through**  
(Interpolated to 6% Filler)

Calcium Silicate Hydrate: TiSil  
Commercial Silicate: HuberSil  
Commercial Carbonate: Huber Carbonate

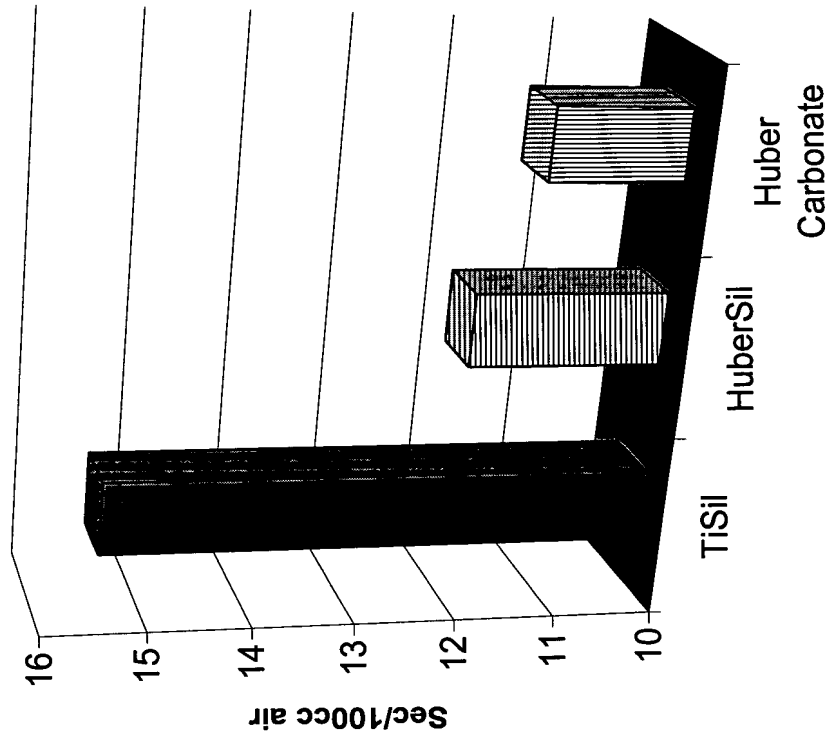


**Fig. 34: Sheet Print Through results on newsprint sheets containing various fillers, interpolated to 6% Ash.**

TiSil vs. HuberSil and  
Huber Carbonate

Calcium Silicate Hydrate: TiSil  
Commercial Silicate: HuberSil  
Commercial Carbonate: Huber Carbonate

**Gurley Sheet Porosity**  
(Interpolated to 6% Filler)

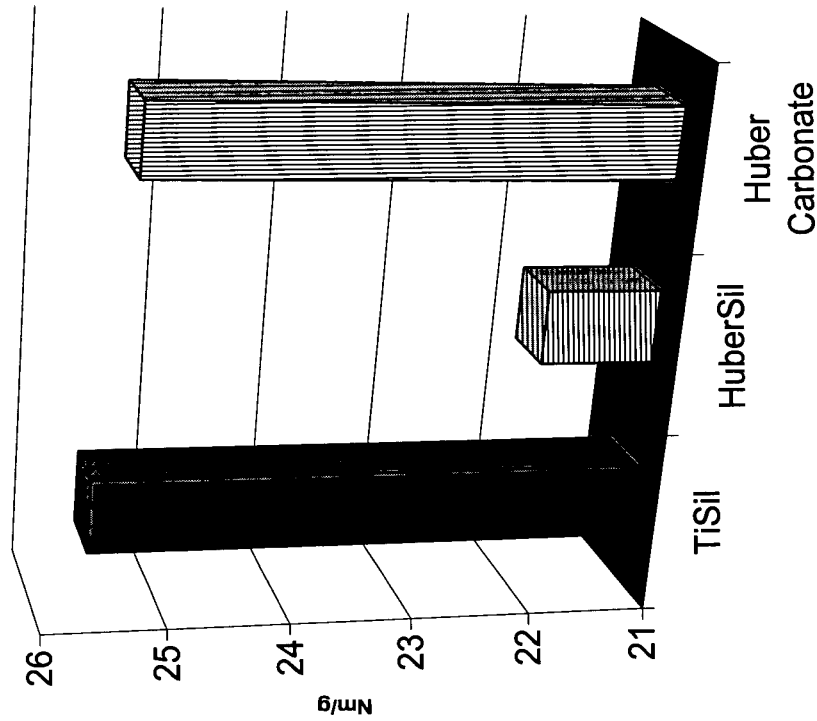


**Fig 35: Gurley Sheet Porosity results for newsprint sheets containing various fillers, interpolated to 6% Ash**

TiSil vs. HuberSil and  
 Huber Carbonate

Calcium Silicate Hydrate: TiSil  
 Commercial Silicate: HuberSil  
 Commercial Carbonate: Huber Carbonate

**Sheet Tensile Index**  
 (Interpolated to 6% Filler)

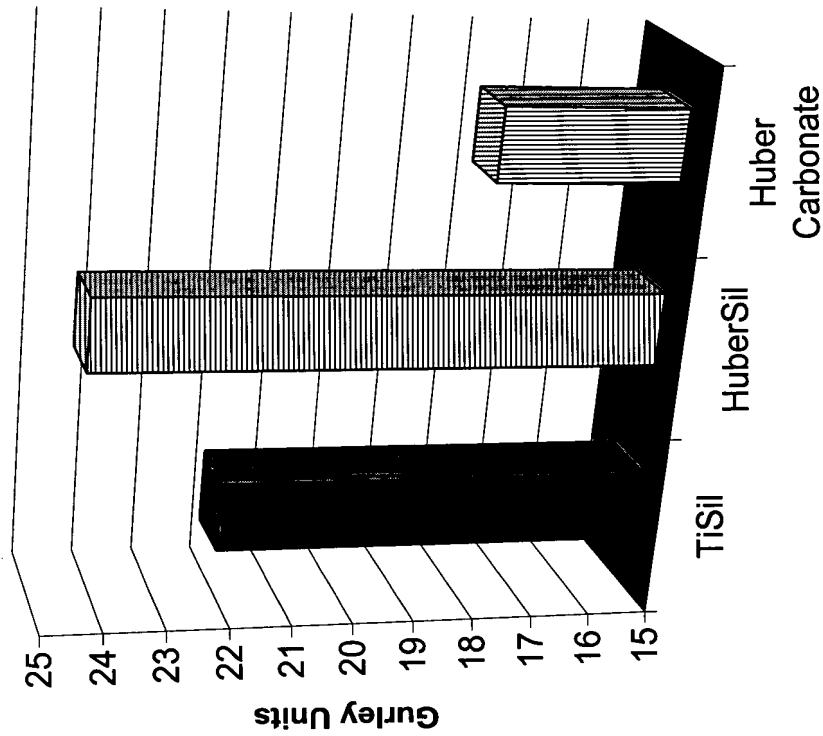


**Fig 36: Sheet Tensile Index results for newsprint sheets containing various fillers, interpolated to 6% Ash**

TiSil vs. HuberSil and  
 Huber Carbonate

### Gurley Sheet Stiffness (Interpolated to 6% Filler)

Calcium Silicate Hydrate: TiSil  
 Commercial Silicate: HuberSil  
 Commercial Carbonate: Huber Carbonate

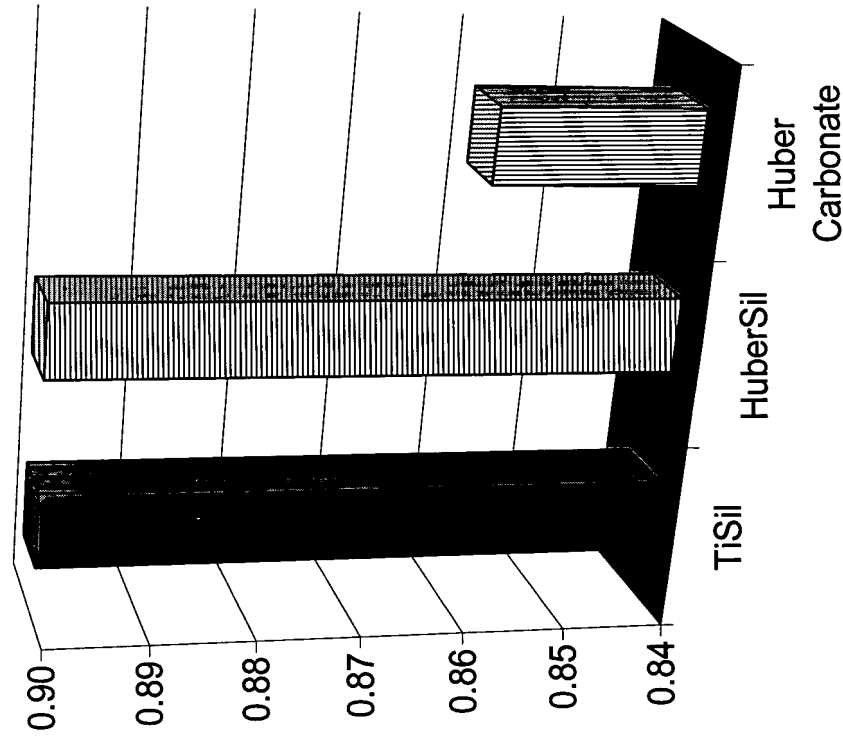


**Fig 37: Gurley Sheet Stiffness results for newsprint sheets containing various fillers, interpolated to 6% Ash**

TiSil vs. HuberSil and  
Huber Carbonate

Calcium Silicate Hydrate: TiSil  
Commercial Silicate: HuberSil  
Commercial Carbonate:  
Huber Carbonate

**Sheet Static Coefficient of Friction**  
(Interpolated to 6% Filler)

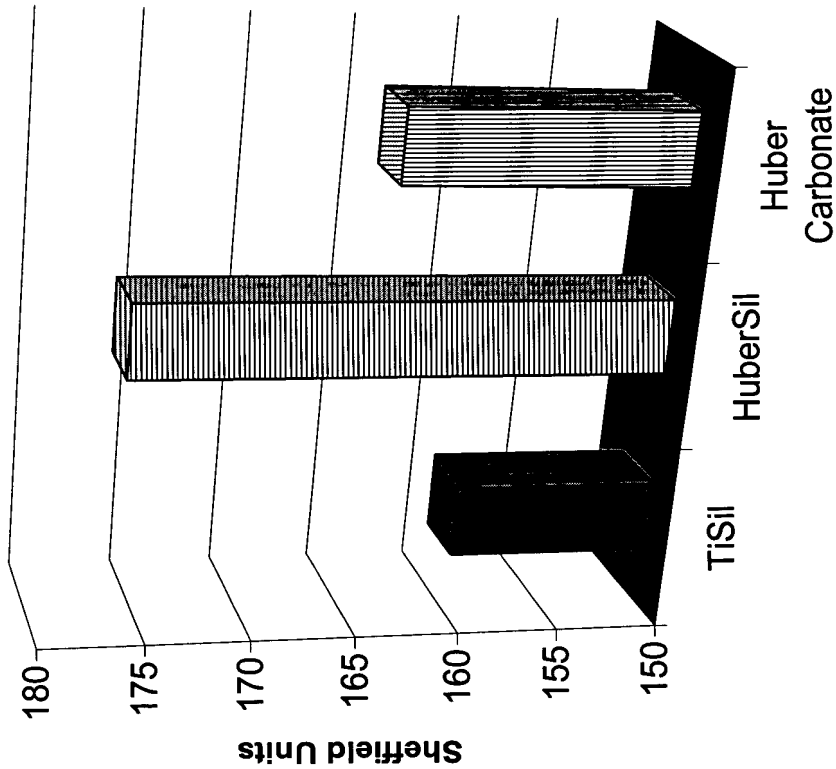


**Fig 38: Sheet Static Coefficient of Friction results for newsprint sheets containing various fillers, interpolated to 6% Ash**

TiSil vs. HuberSil and  
Huber Carbonate

**Sheffield Sheet Smoothness**  
(Interpolated to 6% Filler)

Calcium Silicate Hydrate: TiSil  
Commercial Silicate: HuberSil  
Commercial Carbonate:  
Huber Carbonate



**Fig 39: Sheffield Sheet Smoothness results for newsprint sheets containing various fillers, interpolated to 6% Ash.**